## **PEN.1M.308.XLMT**





Image for illustrative purpose only

### **Summary**

### Request a quote

Catalog	
Number of contacts Low Voltage	8
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMN.1M.308.XLCT
Series	M - Rugged Ratchet coupling

### **Technical details**

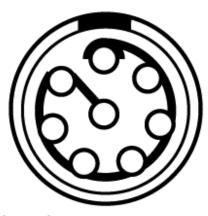
### **Electrical Configuration**

_						
Number of contacts Low Voltage	8					
Contact Termination Low voltage	Crimp					
R (max)	6.1 mOhm					
Insert configuration value	1M.308 - 8 Low Voltage					
Insulator	L: PEEK					
Rated current	5 A					
Test voltage (kV rms) Contact-contact	1.3					
Test voltage (kV rms) Contact-shell	1.1					
Contact retention	22 N					
Max. Conductor	0.382 mm^2 (AWG 22					
Min. Conductor	0.128 mm^2 (AWG 26)					
Bucket Dia.	0.87 mm (0.027in)					
Contact Dia.	0.7 mm (0.028in)					
Wire Size/AWG	26 - 22					
Gender	Standard					
orm & Material						
Shell style / Model id	PE - Fixed receptacle, nut fixing and mold stop					
Socket / Receptacle	Fixed Panel Rear Mounted					
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass					
Locking system	Ratchet					
Keying	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)					
Colour	Grey					

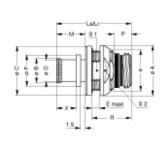
#### **Environment**

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV					
Environmental sealing (IP rating)	IP68					
Endurance	3000 mating cycles					
Temperature range	-20°C / +200°C					
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)					
Gunfire vibration	25 Hz - 2000 Hz, 3 axis (Apache helicopter)					
Humidity (max)	21 days at 95%					
Lighting strike EIA 364-76	10K amps - 6 times					
Shock Resistance	300 g [ 3 ms]					
Thermal shock	5 cycles: -65°C to +150°C					
Vibration-Random	37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]					
Vibration-Sine	30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]					
Salt Spray Corrosion	max. 48 hr					
Cable fixation						
Cable termination protection	For overmolding					
Fixation type	Mold stop (overmolding)					

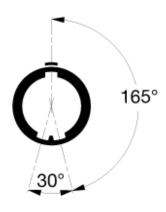
## **Drawings**



Jacket cable outside diameter [mm]



4.85 - 9.70 mm



### **Dimensions**

	A	В	С	D	E	е	Ls	Lr	M	P	R	S1	<b>S2</b>
mm.	18	10.5	17.8	9.7	5	M14x1.00	25.6	25.6	9.7	5.3	13.8	12.5	16
in.	0.71	0.41	0.7	0.38	0.2		1.01	1.01	0.38	0.21	0.54	0.49	0.63

#### $\underline{https://www.lemo.com/int\_en/solutions/optima/m-ratchet-coupling/pen-1m-308-xlmt.html}$

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# **Recommended By Lemo**

#### **Accessories**

Replacement contact	EGN.0M.655.ZZM	
Compatible cap	BGK.1M.200.XAZ	
Tools		
Spanner 2	DCM.65.160.AZ	
Positionner	DCE.91.070.3MVM	
Extraction tool	DCF.93.070.4LT	
Crimp tool	DPC.91.701.V	
Spanner wrench	DCM.65.160.AZ	